Statement of Work

Item	Description	Applicable Contract Function
1	**Subtask001 General Lab support**	**Implementation Phase Services – Mechanical Systems Disciplines**

Performance Requirements	Delivery Schedule:
Re-configure the MDC chamber for testing of two baseplates/radiators for the BIRCHES project. Fabricate two radiator sink plates. Perform 2 temperature cycle tests at two temperatures to simulate the orbit of moon. Develop LabView software program for autonomous control of testing. Perform test run to verify the LabView software program. Provide consultation on the design of truss and canister for the MARS2020 project. Conduct four thermal cycle tests on truss and canister in the thermal vacuum chamber. Reconfigure two radiator cold plates to be tested at the NGIS Gilbert chamber for the JPSS project. Identify materials need to be purchased for reconfiguration. Perform leak check of the cooling lines and functionality check of heaters on the radiators. Prepare the radiator cold plates for shipping to NGIS.	182 Day(s)

Item	Description	Applicable Contract Function
2	**Subtask005 EHD**	**Implementation Phase Services – Mechanical Systems Disciplines**

Performance Requirements	Delivery Schedule:
Test the stability and repeatability of PRTs used on the EHD disk. Investigate the dendritic growth on various silicon chips using Freon 7100, 7200, and 7500. Determine the maximum current to be applied to silicon heater as a function of temperature. Set up Labview for the parabolic flight. Support the parabolic flight experiment.	182 Day(s)